

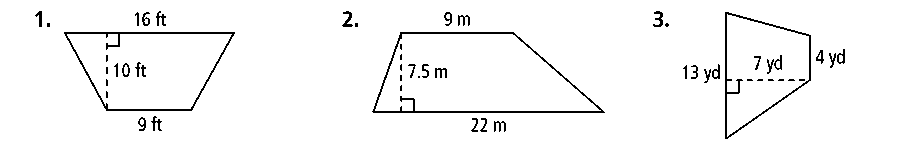
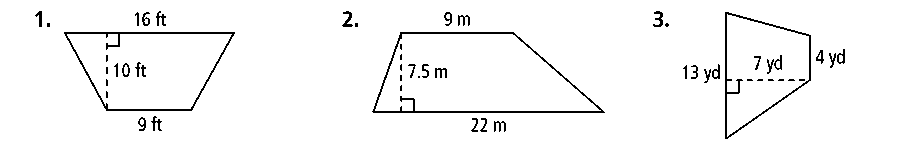
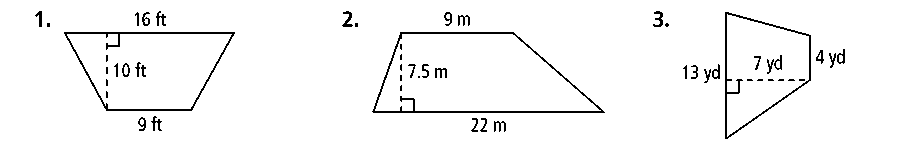
Areas of Trapezoids, Rhombuses, and Kites

10-2

**Practice**

*Form G*

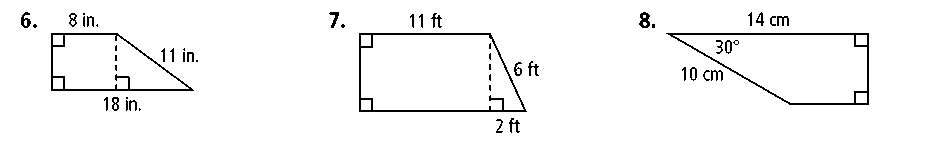
**Find the area of each trapezoid.**

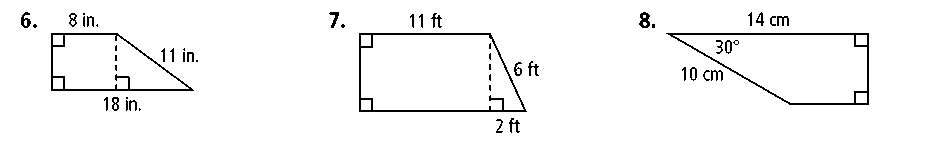
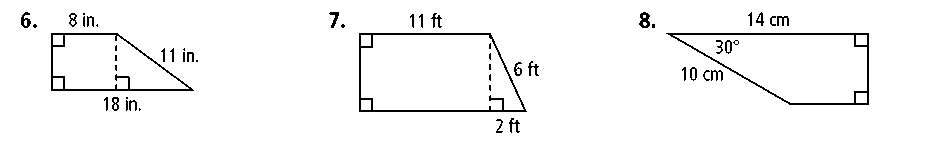
**1. 2. 3.**

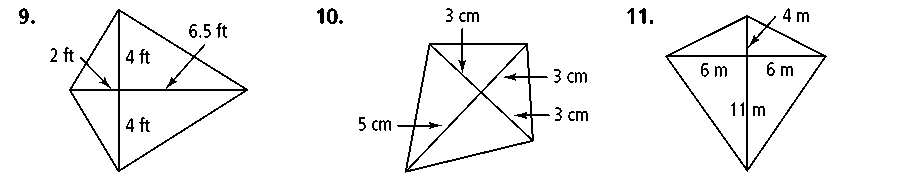
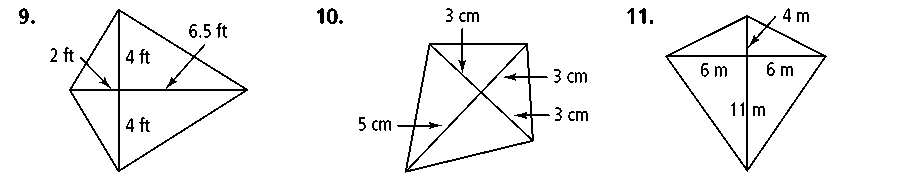
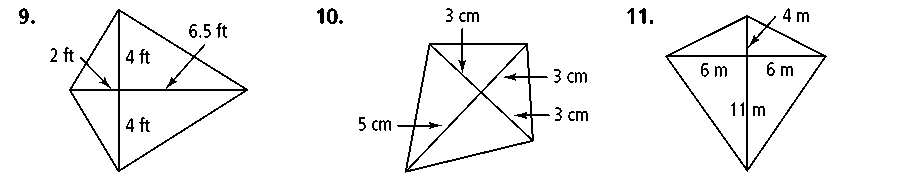
**4.** Find the area of a trapezoid with bases 20 cm and 14 cm and height 5 cm.

**5.** Find the area of a trapezoid with bases 8 in. and 7 in. and height 5.2 in.

**Find the area of each kite.**

**Find the area of each trapezoid. If your answer is not an integer, leave it in simplest radical form.**

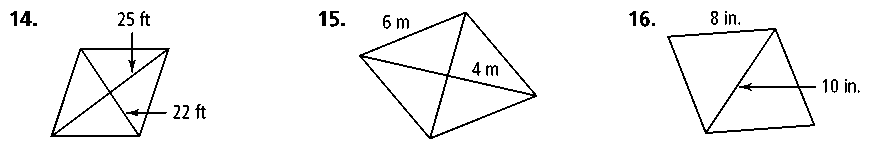
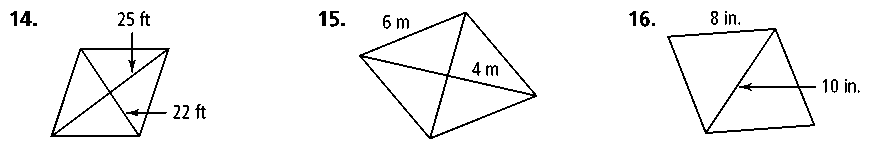
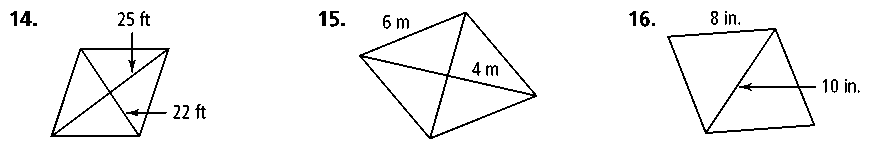
** 6. 7. 8.**

**9. 10. 11.**

**12.** Find the area of a kite with diagonals 12 ft and 3 ft.

**13.** Find the area of a kite with diagonals 16 m and 14 m.

**Find the area of each rhombus.**

** 14. 15.**  **16.**

**17.** Find the area of a rhombus with diagonals 9 yd and 6 yd.

**18.** Find the area of a rhombus with diagonals 4.5 in. and 5.2 in.

**19. Open-Ended** Draw a rhombus. Measure the lengths of its diagonals. Find its area.

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**13**

Name

Class

Date



Areas of Trapezoids, Rhombuses, and Kites

10-2

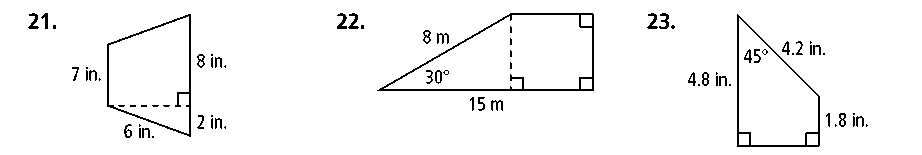
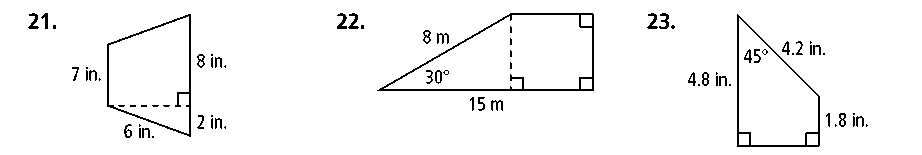
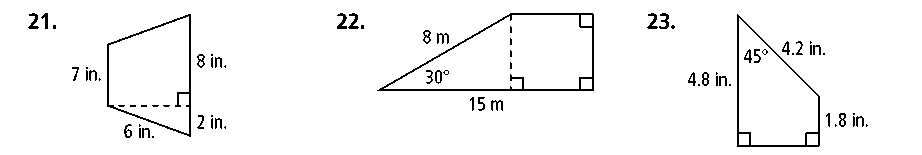
**Practice** (continued)

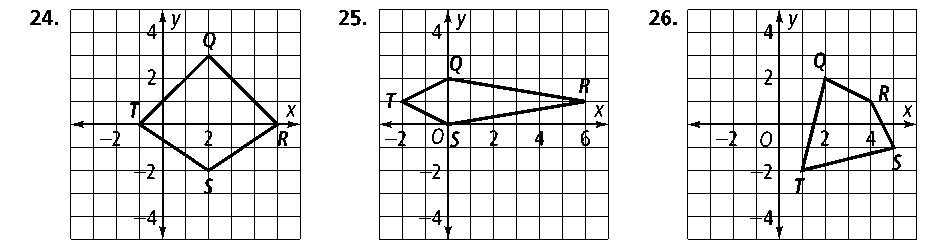
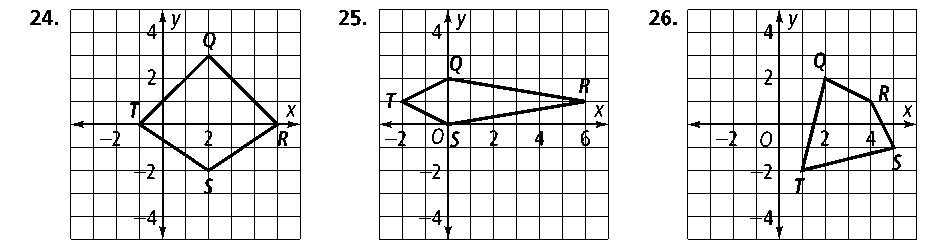
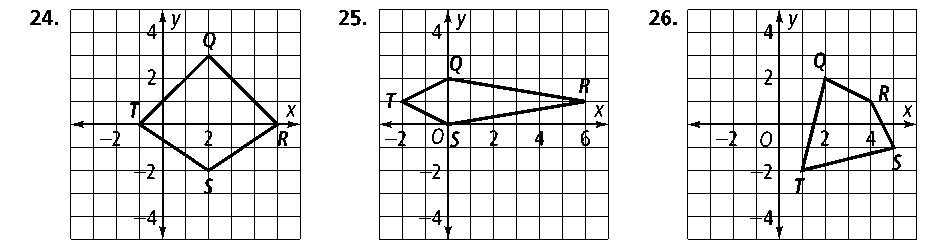
*Form G*

**20.** A trapezoid has two right angles, 16 in. and 20 in. bases, and 5 in. height. Sketch the trapezoid and find its perimeter and area.

**Coordinate Geometry Find the area of quadrilateral *QRST.***

**Find the area of each trapezoid to the nearest tenth.**

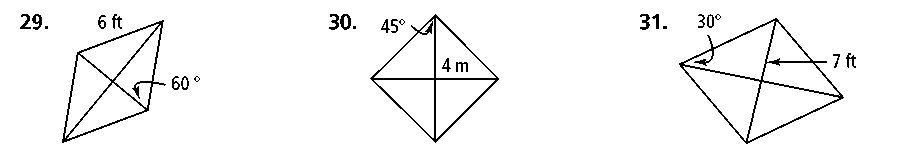
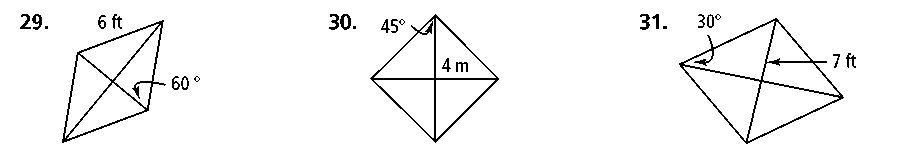
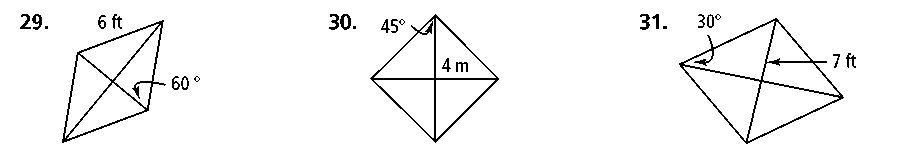
**21. 22. 23.** 

** 24. 25. 26.**

**27. Coordinate Geometry** Graph the lines *y* = *x −* 2, *y =* −*x +* 2, *y =* 2*x −* 10, and *y =* −2*x −* 2. What type of quadrilateral do the lines form? Find the area of the quadrilateral.

**28. Algebra** One diagonal of a rhombus is 5 less than twice the other diagonal. The area is 75 cm2. Find the length of each diagonal.

**Find the area of each rhombus. Leave your answer in simplest radical form.**

 **29. 30. 31.**

**32.** Trapezoid *QRST* has two right angles. A 5 in. altitude can be drawn dividing *QRST* into a rectangle and an isosceles right triangle. The longer side of the rectangle measures 9 in. What is the area of the trapezoid?

**33.** In isosceles trapezoid *EFGH,* , *FG* = 10, *GH =* 12, and . Find the area of *EFGH.*

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